

# Shiva Soleimany Dizicheh

Department of Computer Engineering  
University of Isfahan, Isfahan, Iran

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[Website](#)

## Education

- University of Isfahan, Isfahan, Iran  
B.Sc., Software Engineering 2013-2017  
Last 60 credits:  $18/20 \equiv 3.83/4$   
Selected courses (50 credits)<sup>1</sup>:  $18.2/20 \equiv 4/4$   
Cumulative GPA:  $16.65/20 \equiv 3.43/4$
- Farzanegan High School, NODET(National Organization for Development of Exceptional Talents), Isfahan, Iran  
High School Diploma in Mathematics and Physics 2009-2013  
Cumulative GPA: 4/4

## Publications

- [1] Gh.Naderian, **Shiva Soleimany**, [and 5 others], "Predicting the risk of Retinopathy of Prematurity in premature infanats", *under preparation*
- [2] **Shiva Soleimany**, K.Bagheri, "A note on the Euclidean algorithm"  
*Accepted to the Journal of Mathematics and System Science*
- [3] M.Aliabadi, **Shiva Soleimany**, "A note on acyclic matchings in abelian groups", Submitted to the *Journal of Combinatorial Mathematics and Combinatorial Computing*

## Research

- **Action recognition from video** 2017-2018  
Research at the Vision and Robotics Laboratory, University of Isfahan  
Under the supervision of **Dr.Monadjemi**  
-Working on video action recognition using spatial & temporal stream CNNs
- **Vision based autonomous robot movement** 2016  
Research at the Vision and Robotics Laboratory, University of Isfahan  
Under the supervision of **Dr.Monadjemi**  
-Joint research with two Ph.D. students

## Relevant Courses & Trainings

- **Online Courses**[Click to view certificates]
  - Machine Learning - Stanford University on Coursera
  - Machine Learning for Data Science and Analytics - ColumbiaX on edX
  - Neural Networks and Deep Learning - Deeplearning.ai on Coursera
  - Convolutional Neural Networks - Deeplearning.ai on Coursera
- **Tensorflow Workshop, University of Isfahan**  
by [Hassan Abolhassani](#), Senior Software Engineer at Google

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<sup>1</sup>Data Mining(18.57), Data Structures and Algorithms(19.5), Principles of Computer and Programming(19.25), Discrete Mathematics(17.2), Advanced Programming(17), Algorithm Design(16), Software Engineering(17.75), Evolutionary Computation(17), Expert Systems(17.75), Database Design Laboratory (17.25), Microprocessor(19.5), Operating Systems(18), Computer Networks(16.9), Electronic Circuits(19), Design and Implementation of Programming Languages(17.5), Security in Computer Systems(19.3), Software Project(Thesis)(20)

Awards & Honors	<ul style="list-style-type: none"> <li>• Ranked top 10 percent during the undergraduate studies, (2017)</li> <li>• Awarded the opportunity to continue graduate studies at the University of Isfahan without taking the national graduate study entrance exam(2017)</li> <li>• 1<sup>st</sup> team in the ACM contests held at the University of Isfahan(2016)</li> <li>• 3<sup>rd</sup> place in the Isfahan startup weekend,Isfahan, Iran(2015)</li> <li>• Ranked top 0.007 in the nationwide university entrance exam(2013)</li> <li>• 2<sup>nd</sup> place, <b>IranOpen RoboCup Competitions</b>, Junior Soccer League(2012)</li> <li>• 2<sup>nd</sup> place, <b>IranOpen RoboCup Competitions</b>, Junior Soccer League(2011)</li> <li>• Participating in the <b>International Robotic Competitions</b>, Junior Soccer League, Istanbul, Turkey(2011)</li> <li>•Participated in AUTCUP RoboCup Competitions, Line Follower League(2010)</li> </ul>
Teaching Experience	<ul style="list-style-type: none"> <li>• <b>Teaching Assistant, University of Isfahan</b> <ul style="list-style-type: none"> <li>-Data Mining : TA to Professor Rezaei 2016</li> <li>-Data Structures : TA to Professor Fatemi 2013</li> <li>-Electronic Circuits: TA to Professor Ehsani 2018</li> <li>-Advanced Programming(JAVA) : TA to Professor Zaeri 2015</li> <li>-Technical English : TA to Professor Rezaei 2017</li> </ul> </li> <li>• <b>Instructor,Farzanegan High School (NODET)</b> 2015-2017 <ul style="list-style-type: none"> <li>-Mathematics (Algebra, Combinatorics , Geometric Analysis)</li> <li>-Programming ( HTML, C++)</li> <li>-Mechanical Physics and Astronomy</li> </ul> </li> </ul>
Work Experience	<ul style="list-style-type: none"> <li>• <b>Developer at ITOorbit, Tehran, Iran</b> 2016-2017  Back-end developer for the 'NAAD' project. NAAD is the first and only ERP system in Iran designed to manage the information of students and professors in universities. (Java EE, SQL, Wampserver) <ul style="list-style-type: none"> <li>-Database developer</li> <li>-Software developer</li> <li>-Writing a program to clean, compress &amp; encrypt text files to increase security</li> </ul> </li> <li>•<b>English Instructor, New Way Language Institution</b> 2015-2017</li> </ul>
Technical Skills	<ul style="list-style-type: none"> <li>•<b>Machine Learning, Data Mining and Computer Vision Tools</b>  TensorFlow, OpenCV, Scikit-learn, NetworkX, Keras</li> <li>• <b>Programming Languages</b>  Python, MATLAB, C++, JAVA, R, Octave, Prolog, Lisp, AVR Assembly</li> <li>• <b>Other</b>  Linux(Ubuntu, Fedora), Microsoft SQL Server, Microsoft Windows, Proteus  Microsoft Office, Microsoft Visual studio, CodeVision AVR, VMWare, L<sup>A</sup>T<sub>E</sub>X</li> </ul>

Related Projects	<ul style="list-style-type: none"><li>● <b>Facial Expression Recognition</b> Implementing different CNNs to recognize what emotion the person in the picture is feeling. (Python &amp; Keras)</li><li>● <b>Hand Gesture Recognition(numbers)</b> <i>For sequential models course</i>, implementing a model that recognizes numbers represented in sign language with almost 80% accuracy on the test set. (Python &amp; Tensorflow)</li><li>● <b>Dimensionality Reduction</b> <i>For Machine Learning Course</i>, Applying PCA on a face dataset to reduce its dimensionality by 10x. (Matlab)</li><li>● <b>Image Compression</b> <i>For Machine Learning course</i>, Using K-means algorithm to compress an image by reducing the number of its colors only to those that are most common in it. (Matlab)</li><li>● <b>Emojifying Text Messages</b> <i>For sequential models course</i>, implementing a model which inputs a sentence and finds the most appropriate emoji to be used with that sentence. (Python &amp; Keras)</li><li>● <b>Improvise a Jazz Solo</b> <i>For sequential models course</i>, implementing a model that uses an LSTM to generate musical values. (Python &amp; Keras)</li><li>● <b>Movie Recommender System</b> <i>For Machine Learning course</i>, Using Collaborative Filtering to recommend movies to users based on their preference. (Matlab)</li></ul>												
Language Proficiency	<ul style="list-style-type: none"><li>● <b>English</b> : Full Professional Proficiency</li></ul> <p><b>TOEFL iBT Score: (118/120)</b></p> <table><tr><td>-Reading <b>30/30</b></td><td>- Listening <b>30/30</b></td></tr><tr><td>-Speaking <b>28/30</b></td><td>-Writing <b>30/30</b></td></tr></table> <p><b>GRE General Score:</b></p> <table><tr><td>Quantitative Reasoning : <b>168/170</b></td><td>(94th percentile)</td></tr><tr><td>Verbal Reasoning : <b>160/170</b></td><td>(86th percentile)</td></tr><tr><td>Analytical Writing : 3.5/6</td><td>(41th percentile)</td></tr></table> <ul style="list-style-type: none"><li>● <b>French</b> : Conversational</li><li>● <b>Persian(Farsi)</b> : Native</li></ul>			-Reading <b>30/30</b>	- Listening <b>30/30</b>	-Speaking <b>28/30</b>	-Writing <b>30/30</b>	Quantitative Reasoning : <b>168/170</b>	(94th percentile)	Verbal Reasoning : <b>160/170</b>	(86th percentile)	Analytical Writing : 3.5/6	(41th percentile)
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Hobbies	<ul style="list-style-type: none"><li>● Reading books(Novels, Philosophy, Psychology), Painting, Playing Chess , Watching documentary, Hiking, Traveling, Learning foreign languages</li></ul>												
References	<ul style="list-style-type: none"><li>● <b>Professor Monadjemi</b>      <a href="#">website</a>      monadjemi@eng.ui.ac.ir</li><li>● <b>Professor Fatemi</b>      <a href="#">website</a>      a_fatemi@eng.ui.ac.ir</li><li>● Others available upon request</li></ul>												